

AMENDMENTS TO THE CLAIMS

Please replace the current version of the claims with the following rewritten version:

1. – 8. (Cancelled)

9. (Currently Amended) An optical cursor control device having a light concentrating pad and an optical pointing device~~mouse~~ moved on the light concentrating pad by an operator, the light concentrating pad comprising:

~~a light concentrating plate reflecting incident light into the light concentrating pad;~~
an optical wave guide ~~for passing light reflected from the light concentrating plate;~~
a lower reflecting plate attached to a bottom of the optical wave guide for upwardly reflecting ~~the light introduced into the optical wave guide; and~~

an upper transparent plate attached to a top of the optical wave guide for passing the light reflected from the lower reflecting plate;

side reflecting plates attached to a portion of sides of the optical wave guide for reflecting the light in the optical wave guide; and

a light concentrating plate attached to an edge of the lower reflecting plate and separated from the upper transparent plate, wherein the light concentrating plate reflects external light into the optical wave guide through another portion of the sides of the optical wave guide.

10. (Original) The optical cursor control device according to claim 9, wherein the upper transparent plate includes regular patterns drawn on a surface thereof.

11. (Currently Amended) The optical cursor control device according to claim 9, wherein the optical pointing device~~mouse~~ comprises:

a case including a lower panel, the lower panel having an opening;
an optical sensor mounted inside the case for sensing reflected light introduced into the case through the opening; and

a printed circuit board for processing a signal outputted from the optical sensor to generate an output signal that corresponds to a position of the case.

12. (Currently Amended) The optical cursor control device according to claim 11, wherein the optical pointing device~~mouse~~ further comprises:

- a switch module disposed on the printed circuit board; and
- a button disposed at the top surface of the case to turn on or off the switch module.

13. – 16. (Cancelled)

17. (New) The optical cursor control device according to Claim 9, further comprising: a light source emitting a light toward the light concentrating plate, wherein the light concentrating plate reflects the light from the light source into the optical wave guide.

18. (New) An optical cursor control device including a worktable and an optical pointing device moved on the worktable by an operator, the optical pointing device comprising:

a case;

a light guide disposed at a sidewall of the case, introducing external lights into the case and including a protrusion outwardly protruded from the case, the light guide directly accepting the external lights through the protrusion to obliquely irradiate lights penetrating the light guide onto a surface of the worktable through an opening formed in a lower panel of the case;

an optical sensor disposed in the case and over the opening to detect lights reflecting from the surface of the worktable; and

a printed circuit board with electronic parts processing an output signal of the optical sensor to generate an output signal that corresponds to a position of the case.

19. (New) The optical cursor control device according to Claim 18, wherein the light guide includes a light concentrating surface located at the protrusion to directly accept the external lights and an illuminating surface located opposite the protrusion to irradiate the lights penetrating the protrusion onto the surface of the worktable.

20. (New) The optical cursor control device according to Claim 19, wherein the illuminating surface has an area smaller than that of the light concentrating surface.

21. (New) The optical cursor control device according to Claim 18, further comprising a light emitting device installed in the case, wherein the light emitting device is automatically or manually turned on and lights from the light emitting device are irradiated onto the surface of the worktable through the opening.

22. (New) The optical cursor control device according to Claim 18, further comprising:

- a switch module mounted on the printed circuit board; and
- a button disposed on a top of the case to turn on or turn off the switch module.

23. (New) An optical cursor control device having a worktable and an optical pointing device moved on the worktable by an operator, the optical pointing device comprising:

- a case;
- an optical sensor disposed in the case;
- a light guide disposed at a sidewall of the case, introducing external lights into the case and including a protrusion outwardly protruded from the case, the light guide accepting lights reflecting from the worktable adjacent to the case through the protrusion to irradiate lights penetrating the light guide onto the optical sensor; and
- a printed circuit board with electronic parts processing an output signal of the optical sensor to generate an output signal that corresponds to a position of the case.

24. (New) The optical cursor control device according to Claim 23, wherein the light guide is a prism.

25. (New) The optical cursor control device according to Claim 24, wherein the prism comprises a first area that accepts the lights reflecting from the surface of the worktable adjacent to the case and a second surface that introduces the lights penetrating the prism onto the optical sensor.

26. (New) The optical cursor control device according to Claim 25, wherein the prism further comprises light concentrators disposed at the first and second areas, and the light concentrators increase intensities of the lights passing through the light concentrators.

27. (Newly Added) The optical cursor control device according to Claim 26, wherein the light concentrators are convex lenses.

28. (Newly Added) The optical cursor control device according to Claim 23, further comprising:

- a switch module mounted on the printed circuit board; and
- a button disposed on a top of the case to turn on or off the switch module.